SIEMENS

Data sheet

3MT7012-0AA10-0AL2



3P Power Contactor AC3:12A 1NO AC230V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA		
product designation	Power contactor		
General technical data			
size of contactor	0		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current at AC in hot	7.5 W		
operating state			
• per pole	2.5 W		
insulation voltage			
 of main circuit with degree of pollution 3 rated value 	1 000 V		
 of auxiliary circuit with degree of pollution 3 rated value 	1 000 V		
surge voltage resistance			
 of main circuit rated value 	6 kV		
 of auxiliary circuit rated value 	6 kV		
protection class IP			
on the front	IP20		
mechanical service life (operating cycles)			
of contactor typical	10 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	07/01/2022		
Weight	0.354 kg		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
 during operation 	-5 +55 °C		
during storage	-25 +70 °C		
relative humidity minimum	10 %		
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %		
Main circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	3		
operating voltage at AC-3 rated value maximum	690 V		
operational current			
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	25 A		
• at AC-1 up to 690 V			
— at ambient temperature 40 °C rated value	25 A		
— at ambient temperature 60 °C rated value	19 A		
• at AC-3			
— at 400 V rated value	12 A		

— at 690 V rated value	6.7 A
operating power	
• at AC-3	
— at 400 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
• at AC-1 maximum	600 1/h
• at AC-3 maximum	750 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of	
magnet coil at AC	
• at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	80 VA
• at 60 Hz	80 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	12 VA
• at 60 Hz	11 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
• at 60 Hz	0.3
closing delay at AC	9 25 ms
opening delay at AC	4 15 ms
Auxiliary circuit	
number of NO contacts for auxiliary contacts	
instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	6 A
• at 110 V rated value	3 A
at 220 V rated value	1A
operational current at DC-13	
at 24 V rated value	6 A
• at 110 V rated value	1A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	fuse gG: 32 A
	-
	fuse gG: 25 A
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A
mounting position	22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm

			45 .				
width			45 mm				
depth			82 mr	n			
Connections/ Terminals							
type of electrical connection							
for main current circuit			screw-type terminals				
 for auxiliary and control circuit 			screw-type terminals				
type of connectable con	ductor cross-sections for	main contacts					
solid or stranded			1x (1 4 mm²), 2x (1 4 mm²)				
 finely stranded with core end processing 			1x (1	1x (1 4 mm²), 2x (1 1.5 mm²)			
type of connectable conductor cross-sections							
for auxiliary contacts							
— solid or stranded			1x (1 4 mm²), 2x (1 4 mm²)				
— finely stranded with core end processing		1x (1 2.5 mm²), 2x (1 1.5 mm²)					
tightening torque							
• for main contacts with screw-type terminals			1.2 N·m				
 for auxiliary contacts with screw-type terminals 			1.2 N·m				
design of the thread of the connection screw							
for main contacts			M3.5				
 of the auxiliary and control contacts 			M3.5				
Approvals Certificates							
General Product Ap- proval	Test Certificates	other		Environment			
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations			

	format	

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

htt siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7012-0AA10-0AL2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7012-0AA10-0AL2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3MT7012-0AA10-0AL2

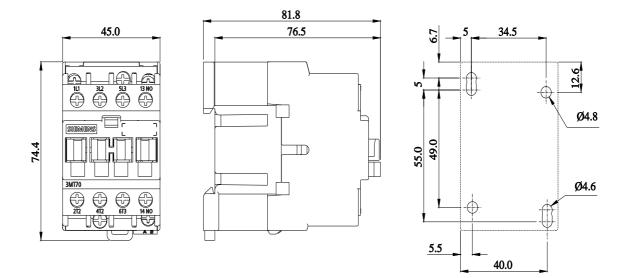
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7012-0AA10-0AL2&lang=en

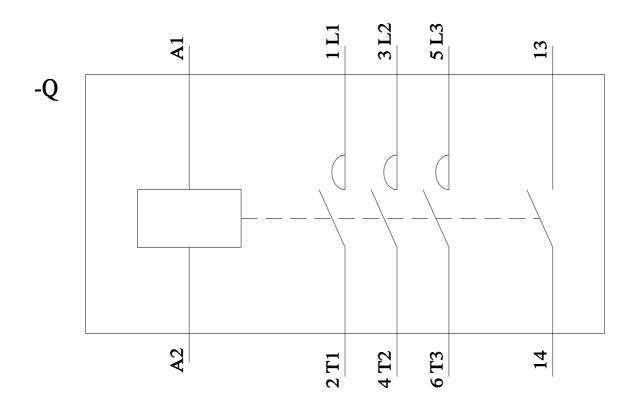
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7012-0AA10-0AL2/char

Further characteristics (e.g. electrical endurance, switching frequency)

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